



Docket No.: M4065.1009/P1009
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kristy A. Campbell et al.

Application No.: 10/766,010

Confirmation No.:

Filed: January 29, 2004

Art Unit: N/A

For: SIMULTANEOUS READ CIRCUIT FOR
MULTIPLE MEMORY CELLS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 C.F.R. § 1.97(b)(1)). A copy of each reference on the PTO/SB/08 is attached. This Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and the Examiner is respectfully requested to consider the listed references.

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construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1073, under Order No. M4065.1009/P1009. A duplicate copy of this paper is enclosed.

Dated: March 29, 2004

Respectfully submitted,

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PTO/SB/08a/b (08-03)

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				First Named Inventor	Kristy A. Campbell
				Art Unit	N/A
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-6,218,718	4/2001	Gregg et al.	
	AB	US-6,304,481	10/2001	Hurt	
	AC	US-6,061,265	5/2000	Hannah	
	AD	US-5,530,263	6/1996	DiVincenzo	
	AE	US-6,052,519	4/2000	Gates et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
.	CA	A. E. BOTHA et al.; "Electron-spin polarization in symmetric type-II quantum wells from bulk inversion asymmetry" The American Physical Society, Physical Review B67, 195334 pp. 1-8 (2003).	
.	CB	KRISTY A. CAMPBELL, et al.; "Parallel Polarization EPR Characterization of the Mn(III) Center of Oxidized Manganese Superoxide Dismutase" J. Am. Chem. Soc., 121, pp. 4714-4715 (1999).	
.	CC	SHUNICHI FUKUZUMI, et al.; "Photochemical and Electrochemical Properties of Zinc Chlorin - C ₆₀ Dyad as Compared to Corresponding Free-Base Chlorin - C ₆₀ , Free-Base Porphyrin - C ₆₀ , and Zinc Porphyrin - C ₆₀ Dyads" J. Am. Chem. Soc., 123, pp. 10676-10683, (2001).	
.	CD	L. B. GLEBOV, et al.; "Magneto-induced microwave conductivity in Mn ²⁺ - doped silicate glass" Journal of Non-Crystalline Solids 265, pp. 181-184, (2000).	
.	CE	O. KAHN, et al.; "Spin-Transition Polymers: From Molecular Materials Toward Memory Devices", Science, Vol. 279, pp. 44-48 (January 2, 1998).	
.	CF	FATIH KOCER, et al.; "A New Approach In NanoScale Electronics: Spin-FET (Field Effect Transistor) and Spin-Based Memory Architectures," < www.personal.engine.unich.edu/wpualized/spin.pdf > (accessed prior to 1/29/04).	
.	CG	YUJI KUBO, et al.; "Chirality-Transfer Control Using a Heterotopic Zinc (II) Porphyrin Dimer," J. Am. Chem. Soc. 123, pp. 12700-12701, (2001).	
.	CH	Physics Laboratory, "Fourier-Transform Microwave Spectroscopy for Chemical Analysis," < http://physics.nist.gov/Divisions/Div844/facilities/ftmw/ftmw.html > (accessed 2/24/2003).	
.	CI	QILIANG LI; "Capacitance and conductance characterization of ferrocene-containing self-assembled monolayers on silicon surfaces for memory applications," Applied Physics Letters, Volume 81, Number 8, pp. 1494-1496, (August 19, 2002).	

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Sheet	2	of	3	Attorney Docket Number	M4065.1009/P1009

	CJ	PAUL A. LIDDELL, et al.; "Photonic Switching of Photoinduced Electron Transfer in a Dithienylethene-Porphyrin-fullerene Triad Molecule," J. Am. Chem. Soc. 124, pp. 7668-7669, (2002).	
	CK	S.E. LOFLAND, et al.; "Giant microwave magneto-impedance in a single crystal of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$: The effect of ferromagnetic antiresonance," J. Appl. Phys. 80(6), pp. 3592-3594, (September 15, 1996).	
	CL	S. LUDWIG, et al.; "Direct Coupling of Magnetic Fields to Tunneling Systems in Glasses," Physical Review Letters, Volume 88, Number 7, pp. 075501-1-4, (February 18, 2002).	
	CM	J.A. MAJEWSKI, et al.; "First principles study of spin-electronics: Zero-field spin-splitting in superlattices," < www.wsi.tu-muenchen.de/research/annual_reports/rep00/pdfs/24.pdf > (accessed prior to 1/29/04).	
	CN	IAN J. McNAUGHT, et al.; "Microwave Spectroscopy Tutor," < http://jchemed.chem.wisc.edu/JCESoft/Issues/Series_B/8B2/prog2-8B2.html > (accessed 2/24/2003).	
	CO	A.N. Medina, et al.; "Resonant microwave cavity response of amorphous ribbons," J. Appl. Phys. 79(8), pp. 5462-64, (April 15, 1996).	
	CP	RYO MIYAMOTO, et al.; "Interplanar interactions in the triplet dimmers of Zn and metal free complexes of crowned porphyrin and phthalocyanine studied by time-resolved electron paramagnetic resonance," Coordination Chemistry Reviews, 132, pp. 57-62, (1994).	
	CQ	P. GIRI PRAKASH, et al.; "EPR and optical absorption studies of Mn^{2+} ions in alkali borotellurite glasses," Modern Physics Letters B, Vol. 16, Nos. 5 & 6, pp. 143-159, World Scientific Publishing Company, (2002).	
	CR	R.R. RAKHIMOV, et al.; "Microwave response near zero magnetic field in transition-metal-doped silicate glasses," Applied Physics Letters, Volume 76, Number 6, pp. 751-753, (February 7, 2000).	
	CS	JOHN ROBBLEE; "Electron Paramagnetic Resonance" Berkeley Spectroscopy Club," < http://spectroscopy.161.gov/EPR-Robblee.pdf > (accessed April 18, 2001).	
	CT	M.A. ROWE, et al.; "A Hyperfine Measurement in Laser Trapped Radioactive ^{21}Na ," < http://weak0.physics.berkeley.edu/weakint/annual.reports/1997/21Na.NSD1997.pdf > (accessed prior to 1/29/04).	
	CU	POUYA VALIZADEH; "New Approaches in Spin-Electronics: High current gain spin-based HBT and Memory application for the spin-FET," III-V Integrated Circuits and Devices Group, Solid-State Electronics Laboratory, University of Michigan (pub. date not known).	
	CV	SUNG IK YANG et al.; "Interplay of Orbital Tuning and Linker Location in Controlling Electronic Communication in Porphyrin Arrays," American Chemical Society, pp. 4008-18, (1999).	
	CW	DAE HWAN YOON, et al.; "Electrical Conduction through Linear Porphyrin Arrays," J. Am. Chem. Soc. 125, pp. 11062-11064, (August 15, 2003).	
	CX	Chemedu, "Crystal Field Theory" < http://chemed.chem.purdue.edu/genchem/topicreview/bp/ch12/crystal.html >, (accessed 6/23/2003).	
	CY	U. Wimona, "Crystal Field Theory (CFT), An Introduction," < http://wwwchem.uwimona.edu.jm;1104/courses/CFT.html > (accessed 6/23/2003).	
	CZ	*BioChem, "Electromagnetic Radiation," < http://biochem.unl.edu/ragsdale/EPRspectroscopy/sld002.html > (accessed 7/3/2003).	

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	CA1	"ESR Spectroscopy", < http://www.mlib.cnr.it/marble/esr.html > (accessed 7/16/2003).	
	CB1	Frontier Scientific, "Porphyrins," Frontier Scientific, < http://www.frontiersci.com/porphyrins.html > (accessed 11/15/2003).	
	CC1	Net BioChem, "Porphyrins" HemeandIron, < http://www.porphyrin.net/Heme_iron/porphyrins/_porphymain.html > (accessed 11/15/2003).	
	CD1	U. WA, "Section 4: Metal-Ligand Interactions and "Reactions of Coordinated Ligands," < ">http://www.chem.uwa.edu.au/enrolled_students/2nd_year_Chem_Inorg_Section/sect4/sect.> (accessed 6/23/2003).	
	CE1	Univ. Arizona, "Microwave Spectroscopy," < http://www.chem.arizona.edu/faculty/kuko/research/mwspec/spectra/spectra.htm > (accessed 2/24/2003).	
	CF1	BioChem, "The Mineral Perovskite," < http://mineral.galleries.com/minerals/oxides/perovvski/perovski.htm > (accessed 11/15/2003).	
	CG1	BioChem, "Spin-Spin Interaction," < http://biochem.unl.edu/ragsdale/EPRspectroscopy/sld032.html > (accessed 7/16/2003).	
	CH1	U. Alabama, < http://bama.ua.edu/Kshaughn/ch609/notes/3-legal_survey > (accessed prior to 1/29/04).	

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